## INTERNATIONAL SEARCH REPORT

Internation No PCT/EP2004/052820

PCT/EP2004/052820 A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C08F4/70 C08F110/02 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 CO8F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, CHEM ABS Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages PINHEIRO M F ET AL: "BIPHASIC ETHYLENE 1-12 X POLYMERIZATION WITH A DIIMINENICKEL CATALYST" MACROMOLECULAR: RAPID COMMUNICATIONS, WILEY VCH. WEINHEIM, DE, vol. 22, no. 6, 5 April 2001 (2001-04-05), pages 425-428, XP001038811 ISSN: 1022-1336 the whole document -/--Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the \*A\* document defining the general state of the art which is not considered to be of particular relevance invention 'E' earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 05/07/2005 24 June 2005 **Authorized officer** Name and mailing address of the ISA

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European Patent Office, P.B. 5818 Patentlaan 2 NL. - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,



Internal Application No PCT/EP2004/052820

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT  Category Citation of document, with indication, where appropriate, of the relevant passages  Relevant to claim No.								
Category	Criation of document, with indication, where appropriate, of the relevant passages	neievani lo cialii No.						
х	MCGUINNESS, DAVID S. ET AL: "Nickel(II) Heterocyclic Carbene Complexes as Catalysts for Olefin Dimerization in an Imidazolium Chloroaluminate Ionic Liquid" ORGANOMETALLICS, 21(1), 175-181 CODEN: ORGND7; ISSN: 0276-7333, 2002, XP002284541 example 5; table 3 * exemple NiCl2(PCy3)2; tableau 4 * page 180, left-hand column, paragraph 1	1,2,5,6, 9-12						
X	CHAUVIN Y ET AL: "Oligomerization of n-Butenes Catalyzed by Nickel Complexes Dissolved in Organochloroaluminate Ionic Liquids" JOURNAL OF CATALYSIS, ACADEMIC PRESS, DULUTH, MN, US, vol. 165, no. 2, 15 January 1997 (1997-01-15), pages 275-278, XP004459645 ISSN: 0021-9517 the whole document	1,2,5,6, 9-12						
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